

call T7
A1 a plurality of line cards coupled to the plurality of switch cards, the plurality of line cards

8 to interface the plurality of switch cards with traffic coming in and out of a plurality of physical
9 ports.

call B1 24. (Amended) An apparatus for cell replication comprising:

2 means for directing data traffic; and

3 means for controlling the means for directing, the means for controlling coupled to the

4 means for directing comprising a plurality of signal inputs and a plurality of signal outputs and

5 configured to provide control signals to the means for directing, the plurality of signal inputs

6 being requests for data transmission through the means for directing, and the plurality of signal

7 outputs being grants to the requests, data for which a request for transmission is granted by the

8 means for controlling is replicated and processed through the means for directing to a destination

9 slot and to a backup destination slot according to software configurable mapping information.

call B2 33. (New) A machine-readable medium that provides instructions, which when

2 executed by a machine, cause said machine to perform operations comprising:

3 receiving a request for data transmission through a crossbar and a corresponding mapping

4 information, the mapping information received by the crossbar and received from one of a

5 plurality of software configurable slot remap registers, the mapping information indicative of a

6 destination slot and a backup destination slot to which the data is to be transmitted; and

7 replicating the data by transmitting the data to the destination slot and to the backup

8 destination slot when the data arrives at an input slot of the crossbar.

1 34. (New) The machine readable medium of claim 33 further comprising determining

2 whether the destination slot and the backup destination slot to grant the request are available, the

3 availability determined by a scheduler.

1 35. (New) The machine readable medium of claim 34 further comprising transmitting

2 a control signal to the crossbar once availability is confirmed, the control signal transmitted by

3 the scheduler and indicative of the availability of the destination slot and the backup destination

4 slot.

C6N1
A3 1 36. (New) The machine readable medium of claim 35 further comprising sending an
2 acknowledgment back to a source of the request.
